

XENOY™ X5601WX resin

Polybutylene Terephthalate + PC + PET

SABIC Innovative Plastics

Message:

Impact modified PBT+PC+PET, Heat aging improved XENOY

General Information			
Additive	Impact Modifier		
Features	Good Heat Aging Resistance		
	Impact Modified		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.23	g/cm ³	ASTM D792
--	1.22	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (266°C/5.0 kg)	14	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (265°C/5.0 kg)	14.0	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Flow : 3.20 mm	1.0	%	
Across Flow : 3.20 mm	1.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2290	MPa	ASTM D638
Tensile Strength			
Yield ²	54.0	MPa	ASTM D638
Yield	53.0	MPa	ISO 527-2/50
Break ³	45.0	MPa	ASTM D638
Break	50.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁴	5.0	%	ASTM D638
Yield	4.0	%	ISO 527-2/50
Break ⁵	93	%	ASTM D638
Break	120	%	ISO 527-2/50
Flexural Modulus ⁶ (50.0 mm Span)	2210	MPa	ASTM D790
Flexural Stress			
--	82.0	MPa	ISO 178
Break, 50.0 mm Span ⁷	82.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-30°C	250	J/m	ASTM D256

23°C	820	J/m	ASTM D256
-30°C ⁸	18	kJ/m ²	ISO 180/1A
23°C ⁹	62	kJ/m ²	ISO 180/1A
Instrumented Dart Impact (23°C, Total Energy)	55.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	124	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	101	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	98.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	131	°C	ASTM D1525 ¹¹
--	130	°C	ISO 306/B50
--	132	°C	ISO 306/B120
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	7.0E-5	cm/cm/°C	
Transverse : -40 to 40°C	7.2E-5	cm/cm/°C	
NOTE			
1.	50 mm/min		
2.	Type I, 50 mm/min		
3.	Type I, 50 mm/min		
4.	Type I, 50 mm/min		
5.	Type I, 50 mm/min		
6.	1.3 mm/min		
7.	1.3 mm/min		
8.	80*10*4		
9.	80*10*4		
10.	80*10*4 mm		
11.	Rate B (120°C/h), Loading 2 (50 N)		

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